

23 November 1965

MEMORANDUM FOR: Chief, Production Services Division, NPIC

SUBJECT: Trip [redacted]
14-16 November 1965

1. General briefing on the Briefing Print Enlarger, basic design requirements and progress made to date. Personnel in attendance were: [redacted]

[redacted]
Plans & Development Staff, Ronald Dearstine, and the undersigned of PSD.

2. Following this briefing we spent several hours on a demonstration of the bread board model. This consisted of making prints from each lens system covering the minimum to maximum magnification factors. Along with this, tests were included using resolution targets. Since this is a bread board model several changes, most of which are minor, will have to be made. This was brought to our attention [redacted] and will be corrected in the prototype.

3. The basic requirements are for B&W, however, this system can be used for color using a color filter which is incorporated in the lamp house. Three of the six lenses are color corrected and the light source is compatible for color printing.

a. Magnification and lens settings are arrived at by computer techniques and can be accomplished accurately in a minimum of time. However, some changes are in order because of varying thickness of films used.

b. Present method used to make the necessary lens settings, are not practical. This is due to the position and method used in order to achieve this setting. A change was requested and agreed upon by [redacted] Lens and condenser changer takes approximately two minutes. Another change was requested on removing and replacing the lens. Present lens must be aligned and screw mounted into position. This can be dangerous, it increases the possibility of dropping the lens. We requested that the lens have a bayonet type mount. [redacted] agreed.

c. Fluid gate needs additional work. Present method does not have an air-knife for removing excess fluid prior to take-up on spool, this will cause film to become

SUBJECT: Trip [REDACTED]

14-16 November 1965

tacky and stick resulting in possible emulsion damage. A better method is now under consideration by [REDACTED]

- d. Transport system is operated by a joy-stick with torque motor clutch. This is an improvement on the type now used on the 10x20x40x and appears to be satisfactory. Printing speed is borderline, could be faster. This was discussed at length and [REDACTED] agreed to try to seek a method to improve printing speed.
- e. Exposure index counter system appears to be a good one, however, the position in which it is now mounted makes it difficult to read. This will be corrected in the prototype.
- f. The easel has a built-in sensing system to determine exposure readings. This system is not acceptable. This type of exposure reading would be a compilation of over-all exposure and would not allow for point spot exposures which we are required to make for specific areas of a negative. Our present system of on easel reading now allows us to print for maximum results. We explained this to the group and all concurred in my request. Because of its high reflectance, the present easel is not suitable. It diffuses the image, and does not provide a sharp focus. This will be corrected.
- g. The lamp house on this model does not have a cooling or venting system. Because of long exposures, and constant use it is necessary that both be incorporated in the prototype model. The lamp house has a filter wheel so it may be possible to make use of variable contrast black and white paper stocks, this is a fine feature. [REDACTED] feels this can be accomplished and would like to make tests prior to production of the prototype.
4. I feel it would be wise to consider additional work to design and build two additional lenses to cover from the present maximum 60X factor to 160X. [REDACTED] feels this can be accomplished with a minor change to the present design.

[REDACTED]
Chief, Photo Lab Branch, PSD

16 NOV 1965

SURJ. PAR 202/224 BPE

as a result of our visit [] 15 Nov, and
a day with the Briefing Print Enlarger, we all
agreed with a recommendation that []
give a briefing and presentation on the BPE
here at NPIC.

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The NPIC group was composed of
[]

We unanimously concur in the opinion
that [] may have a real useful enlarger
and that the product of the breadboard
should be made known to certain people
here in NPIC.

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I recommend two briefings on 18 December;
0930-1130 for tech. views and R+D, and one
at 1330-1500 for general interest. I recommend
we use the room in IAD, in order to handle
the large boards with mounted photos and
slides and view graphs.

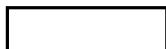
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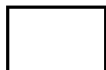
S-E-C-R-E-T

30 March 1966



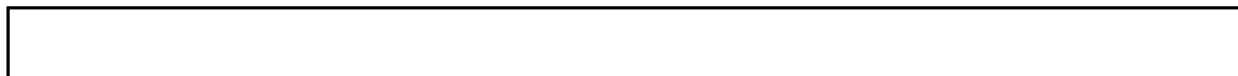
DIRECTOR

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CONFIRMING TELECON 25 MARCH 1966 REQUEST ESTIMATED ROM UNIT COST FOR FIVE
ADDITIONAL PROTOTYPES OF BRIEFING PRINT ENLARGER WITH FULL SIX LENS
COMPLEMENT.

END OF MESSAGE

25X1



Asst/Operations, APIC

S-E-C-R-E-T



Asst/PADS

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SECRET**ACTION COPY**
IN 5737

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SECRET 171851Z

1966 FEB 17 21 43Z

IN ACCORDANCE WITH YOUR MSG 6 97 (OUT 57363) AND VERBAL DISCUSSIONS
SUBSEQUENT THERETO, WE ARE PROCEEDING WITH ALL DESIGN AND BREADBOARDING
ACTIVITIES ON BPE. THIS INCLUDES TESTING TO EVALUATE THE USE OF
STANDARD POLYCONTRAST 1, 2, AND 3 FILTERS. A REVISED PAR AND ESTIMATE
WILL BE SUBMITTED AS SOON AS BREADBOARD TESTS HAVE ESTABLISHED THE
REQUIRED DESIGN APPROACHES. A TENTATIVE SPECIFICATION FOR THE
PROTOTYPE WILL BE SUBMITTED WITH THE PAR REVISION.

SECRET

/END OF MESSAGE/

3

FILE

#

997244

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SECRETGROUP 1
Excluded from automatic
downgrading and
declassification

SECRET

Approved For Release 2005/02/17 : CIA-RDP78B04770A001100040005-2

TENTATIVE SCHEDULE

CONTRACT FILE

PAR 224

5 Oct 64

3X - 15X Fluid Gate Enlarger

5 Oct 64

MONTHS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

PHASE I

1. Breadboard Design
2. Breadboard Fabrication
3. B&W Lens Samples
4. Color Lens Samples
5. Engineering Tests
6. Informal Reports
7. Quarterly Reports
8. Final Report

PHASE II - Design & Fabricate Prototype Enlarger

NOTE: Phase II Schedule will be prepared at or near the completion of Phase I.

GROUP 1
Excluded from automatic
downgrading and
declassification

KEY: O - Start
- Complete
@ - Deliver

Approved For Release 2005/02/17 : CIA-RDP78B04770A001100040005-2



SECRET

Approved For Release 2005/02/17 : CIA-RDP78B04770A001100040005-2

23 June 1964

MEMORANDUM FOR THE RECORD

See the Trip Report covering the period 8 - 11 June 1964 for comments concerning this project.


Admin. Monitor, Contract 
Development Branch, P&DS

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Approved For Release 2005/02/17 : CIA-RDP78B04770A001100040005-2

*Contract
file*

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DISSEM

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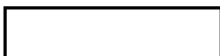
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ATTN:



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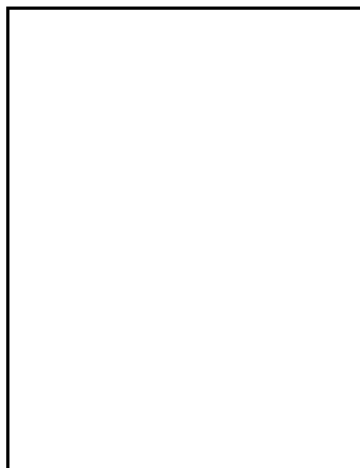
THE FOLLOWING [REDACTED] PERSONNEL WILL BE AT [REDACTED] ON THE DATES INDICATED TO

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BE ON THE [REDACTED] CONTRACT PARS LISTED AFTER THEIR NAME:

25X1



NAME

DATE

202, 206, 207, 213, 214, 215, 224

8, 9 JUN

212, 216, 217

10, 11 JUN

222

11 JUN

225, 226

11 JUN

211

11 JUN

ADMINISTRATIVE MATTERS

9, 10, 11 JUN

END OF MESSAGE

ASST/RDS

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16 April 1964

MEMORANDUM FOR THE RECORD

SUBJECT: "3x-15x Fluid Gate Enlarger", under PAR 224 of Contract

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Design Objectives dated 20 February 1964 and the statement of estimated factory costs dated 21 February 1964 covering the subject enlarger, have been reviewed and evaluated. The objectives reflect a clear understanding of the overall task and set forth a logical approach towards accomplishment.

The design objectives propose that the program be carried out in the following three phases.

Phase 1. Feasibility Study
Phase 2. Design Engineering
Phase 3. Prototype

Total

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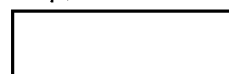
This memorandum confirms the verbal authority of 27 February 1964 to proceed on Phase 1 at the estimated cost [REDACTED]

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PAR-224

5-6-64




Feb 1964

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9 April 1964

Dear John:

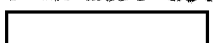
Subject: Monthly Report, 

In accordance with the provisions of Part 3 of Exhibit A to Contract  and the agreement reached at the 3 - 4 February conference, the attached report covering the period 24 February to 22 March 1964 is forwarded for your information and guidance.

Please note that total expenditures shown in Column 8 of the Fiscal Summary show expenditures to 23 Feb 64 only. As agreed at the Contract Review Meeting, each report will be approximately one month behind in the reporting of expenditures.

Column 9, Remarks, of the Fiscal Summary, indicates action being taken and/or pending on FARS. Only those FARS that have been approved at the time of the report and/or have an expenditure of funds are reported in detail.

Tentative date for completion of Phase I, PAR 224, 3-15X Fluid Gate Enlarger, is 1 Apr 65. Since this design shares many features common to FARS 202, 204 and 205, it may be possible to work common design studies to adjust this schedule and/or reduce expenditure on the four projects. This possibility will be carefully checked and desirable scheduled changes will be reported as they become available.

Your statement of specific needs for a monochromatic lens system has been reviewed, and it now appears desirable to discuss requirements in more detail with your people. Arrangements have been made for  to visit your facility in the near future for this purpose.

RWW:MOS

R. R. W.

1 Incl

1. Monthly Report (5 copies)

cc: Contracting Officer, w/encl.

SECRET

GROUP-1

Excluded from automatic downgrading
and declassification